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(21)Application number : 11-292932 (71)Applicant : HITACHI METALS LTD
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(54) R-T-B SINTERED PERMANENT MAGNET

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an R-T-B sintered type permanent magnet of high performance which is suitable for a use requiring high Br and high (BH)max.

SOLUTION: This R-T-B sintered type permanent magnet (R is at least one kind of rare earth element containing Y and necessarily contains at least one kind of heavy rare earth element selected from among a group composed of Dy, Tb and Ho, and T is Fe or Fe and Co) has a composition, where R: 28-33 wt.%, B: 0.5-2 wt.% and residue is practically composed of T and unavoidable impurities. The R-T-B sintered type permanent magnet has a texture containing first R2T14B type main phase crystal grains, where the concentration of heavy rare earth element is higher than these of

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crystal grain phase and second R2T14B type main phase crystal grains, where the concentration of the heavy rare earth element is lower than that in the crystal grain phase.

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